



SEQUENCE LISTING

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TECH CENTER 1600/2900

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<120> COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL SAMPLES
AND METHODS OF USE THEREOF

<130> M-903820US

<140> US 09/394,019

<141> 1999-09-10

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<151> 1998-02-20

<150> US 08/802,981

<151> 1997-02-20

<160> 257

<170> PatentIn version 3.0

<210> 1

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<223> Synthetic peptide substrate

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<223> Xaa is Aib or Pro

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Lys Asp Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
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Lys Asp Xaa Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
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Lys Asp Tyr Xaa Ala Asp Gly Ile Asp Pro Lys Gly Tyr
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Lys Asp Xaa Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
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<222> (6)..(6)

<223> Xaa is norleucine

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Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

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<223> Xaa is Aib or Pro

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Gly Tyr

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<223> Xaa is Aib or Pro

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<223> Xaa is epsilon aminoacproic acid

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Gly Tyr

<210> 15

<211> 13

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<223> Blocked with Fa

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<222> (4)..(4)

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Gly Tyr

<210> 17

<211> 16

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<222> (16)..(16)

<223> Blocked with amide

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1 5 10 15

<210> 18

<211> 19

<212> PRT

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<223> Residue blocked with Fmoc

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<222> (4)..(4)

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<220>

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<222> (5)..(5)

<223> Xaa is d form tetrahydroisoquinoline-3-carboxylic acid

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Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
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Lys Gly Tyr

<210> 19

<211> 17

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Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 20

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Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 21

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<222> (4)..(4)

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<220>

<221> MOD_RES

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1 5 10 15

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<211> 18

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Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 23

<211> 18

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<222> (4)..(4)

<223> Xaa is epsilon amino caproic acid

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Lys Asp Pro Xaa Gly Asp Phe Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 24

<211> 18

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<222> (4)..(4)

<223> Xaa is epsilon amino caproic acid

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Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 25

<211> 18

<212> PRT

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<223> Synthetic peptide substrate

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<223> Blocked with Fmoc

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<222> (4)..(4)

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Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

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Lys Asp Xaa Xaa Gly Asp Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon amino caproic acid

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Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 28

<211> 18

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<222> (3)..(3)

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<220>

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon amino caproic acid

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Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 29

<211> 18

<212> PRT

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Gly Tyr

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<223> Xaa is alpha aminoisobutyric acid

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1 5 10 15

Lys Gly Tyr

<210> 31

<211> 18

<212> PRT

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Lys Asp Xaa Xaa Gly Asn Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 32

<211> 18

<212> PRT

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<223> Xaa is epsilon amino caproic acid

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Xaa is alpha aminoisobutyric acid

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Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 33

<211> 18

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Gly Tyr

<210> 34

<211> 18

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<222> (3)..(3)

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Gly Tyr

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<222> (3)..(3)

<223> Xaa is alpha aminoisobutyric acid

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1 5 10 15

Gly Tyr

<210> 36

<211> 19

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<222> (6)..(6)

<223> Xaa is tetrahydroisoquinoline-3-carboxylic acid

<220>

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<222> (15)..(15)

<223> Xaa is epsilon aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 36

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Lys

<210> 37

<211> 19

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<220>

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<223> Xaa is Aib

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<222> (6)..(6)

<223> Xaa is D form tetrahydroisoquinoline-3-carboxylic acid

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<222> (15)..(15)

<223> Xaa is epsilon aminocaproic acid

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 38

<211> 19

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<220>

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<221> MOD_RES

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<223> Xaa is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
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Lys Gly Tyr

<210> 39

<211> 19

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<220>

<221> MOD_RES

<222> (6)..(6)

<223> W is D form

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<222> (15)..(15)

<223> Xaa is epsilon aminocaproic acid

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 40

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<220>

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<222> (16)..(16)

<223> Xaa is epsilon aminocaproic acid

<220>

<221> MOD_RES

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<223> Xaa is epsilon aminocaproic acid

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Pro Lys Gly Tyr
20

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<211> 20

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<223> Xaa is epsilon aminocaproic acid

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

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Pro Lys Gly Tyr
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<211> 14

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<210> 43

<211> 14

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<223> Synthetic peptide substrate

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<223> Xaa is Aib

<400> 43

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asn Pro Lys Gly Tyr
1 5 10

<210> 44

<211> 14

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<223> Synthetic peptide substrate

<220>

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<223> Xaa is Aib

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Lys Asp Xaa Tyr Val Ala Asn Gly Ile Asn Pro Lys Gly Tyr
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<210> 45

<211> 16

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<223> Xaa is Aib

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<210> 46

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<223> Xaa is Aib

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<210> 47

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<210> 48

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Xaa Pro Lys
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Gly Tyr

<210> 49

<211> 18

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<223> Synthetic peptide substrate

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<222> (14)..(14)

<223> Xaa is epsilon aminocaproic acid

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

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Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 50

<211> 18

<212> PRT

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<221> MOD_RES

<222> (3)..(3)

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<222> (14)..(14)

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

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1 5 10 15

Gly Tyr

<210> 51

<211> 18

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<223> Synthetic peptide substrate

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<220>

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<222> (14)..(14)

<223> Xaa is epsilon aminocaproic acid

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 51

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 52

<211> 18

<212> PRT

<213> Artificial

<220>

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<220>

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<222> (6)..(6)

<223> Y is D form

<220>

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<222> (14)..(14)

<223> Xaa is epsilon aminocaproic acid

<220>

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<223> Xaa is epsilon aminocaproic acid

<400> 52

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 53

<211> 17

<212> PRT

<213> Artificial

<220>

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<223> K is blocked with Fmoc

<220>

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<222> (13)..(13)

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 53

Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 54

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 54

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 55

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> Xaa is Aib

<400> 55

Lys Asp Xaa Leu Val Glu Ile Asp Asn Gly Pro Lys Gly Tyr
1 5 10

<210> 56

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> Xaa is Aib

<400> 56

Lys Asp Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Pro Lys Gly Tyr
1 5 10 15

<210> 57

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 57

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 58

<211> 18

<212> PRT

<213> Artificial

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<223> Xaa is epsilon-aminocaproic acid

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 58

Lys	Asp	Xaa	Xaa	Gly	Leu	Val	Glu	Ile	Asn	Asn	Gly	Gly	Xaa	Pro	Lys
1				5					10				15		

Gly Tyr

<210> 59

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 59

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 60

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (12)..(12)

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 60

Lys	Asp	Pro	Xaa	Gly	Ile	Glu	Thr	Asp	Ser	Gly	Xaa	Pro	Lys	Gly	Tyr
1				5					10					15	

<210> 61

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (12)..(12)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 61

Lys	Asp	Pro	Xaa	Gly	Ile	Glu	Thr	Glu	Ser	Gly	Xaa	Pro	Lys	Gly	Tyr
1				5					10					15	

<210> 62

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (3)..(3)

<223> Xaa is Aib

<400> 62

Lys Asp Xaa Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Pro Lys Gly
1 5 10 15

Tyr

<210> 63

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Xaa is Aib

<400> 63

Lys Asp Xaa Gly Ile Glu Thr Asn Ser Gly Val Asp Asp Pro Lys Gly
1 5 10 15

Tyr

<210> 64

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Xaa is Aib

<400> 64

Lys Asp Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Gly Pro
1 5 10 15

Lys Gly Tyr

<210> 65

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> Xaa is Aib

<400> 65

Lys Asp Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 66

<211> 17

<212> PRT

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<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 66

Lys Asp Xaa Xaa Gly Ile Glu Thr Asp Ser Gly Val Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 67

<211> 17

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (3)..(3)

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<222> (13)..(13)

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 67

Lys Asp Xaa Xaa Gly Ile Glu Thr Asn Ser Gly Val Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 68

<211> 19

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (3)..(3)

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<222> (15)..(15)

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 68

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 69

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

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<223> Xaa is Aib

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 69

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 70

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (3)..(3)

<223> Xaa is Aib

<400> 70

Lys Asp Xaa Gly Ser Glu Ser Met Asp Ser Gly Ile Ser Leu Asp Pro
1 5 10 15

Lys Gly Tyr

<210> 71

<211> 17

<212> PRT

<213> Artificial

<220>

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<220>

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<222> (3)..(3)

<223> Xaa is Aib

<400> 71

Lys	Asp	Xaa	Gly	Gly	Ser	Glu	Ser	Met	Asp	Ser	Gly	Gly	Pro	Lys	Gly
1				5					10					15	

Tyr

<210> 72

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> Xaa is Aib

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<222> (15)..(15)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 72

Lys Asp Xaa Xaa Gly Gly Ser Glu Ser Met Asp Ser Gly Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 73

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (15)..(15)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 73

Lys	Asp	Xaa	Xaa	Gly	Asp	Val	Val	Cys	Cys	Ser	Met	Ser	Gly	Xaa	Pro
1				5					10					15	

Lys Gly Tyr

<210> 74

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Xaa is Aib

<220>

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<222> (15)..(15)

<223> Xaa is episilon-aminocaproic acid

<220>

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<222> (4) .. (4)

<223> Xaa is epsilon aminocaproic acid

<400> 74

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 75

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<220>
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<223> Xaa is epsilon aminocaproic acid

<400> 75
Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1 5 10 15
Lys Gly Tyr

<210> 76
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate
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<223> Xaa is Aib

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<222> (12)..(12)
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<222> (15)..(15)

<223> Xaa is episilon-aminocaproic acid

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 76

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 77

<211> 19

<212> PRT

<213> Artificial

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<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 77

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 78

<211> 18

<212> PRT

<213> Artificial

<220>

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<222> (14)..(14)

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 78

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 79

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 79

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Asp Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 80

<211> 18

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

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<222> (8)..(8)

<223> V is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 80

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Pro Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 81

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<220>

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<220>

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<223> V is D form

<220>

<221> MOD_RES
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<400> 81

Lys	Asp	Xaa	Xaa	Gly	Glu	Asp	Val	Val	Cys	Asp	Pro	Gly	Xaa	Pro	Lys
1				5					10					15	

Gly Tyr

<210> 82
<211> 19
<212> PRT
<213> Artificial

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<220>

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<222> (15)..(15)

<223> Xaa is episilon-aminocaproic acid

<220>

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<222> (7)..(7)

<223> V is D form

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 82

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 83

<211> 19

<212> PRT

<213> Artificial

<220>

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<220>

<221> MOD_RES

<222> (15)..(15)

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<223> V is D form

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<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 83

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 84

<211> 19

<212> PRT

<213> Artificial

<220>

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<222> (15)..(15)

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<222> (7)..(7)

<223> V is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 84

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 85

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (14)..(14)

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 85

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 86

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (14)..(14)

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 86

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 87

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 87

Lys Asp Xaa Xaa Gly Val Cys Cys Ser Met Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 88

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 88

Lys Asp Xaa Xaa Gly Val Cys Asp Ser Met Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 89

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> Xaa is Aib

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 89

Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Cys Ser Gln His Leu Pro
1 5 10 15

Lys Gly Tyr

<210> 90

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> Xaa is Aib

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 90

Lys	Asp	Xaa	Xaa	Gly	Asp	Glu	Met	Glu	Glu	Cys	Pro	Gln	His	Leu	Pro
1				5				10						15	

Lys Gly Tyr

<210> 91

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> Xaa is Aib

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 91

Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Asp Ser Gln His Leu Pro
1 5 10 15

Lys Gly Tyr

<210> 92

<211> 18

<212> PRT

<213> artificial sequence

<220>

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<223> Xaa is Aib

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 92

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Pro Lys
1 5 10 15

Gly Tyr

<210> 93

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (3)..(3)

<223> Xaa is Aib

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 93

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Pro Lys
1 5 10 15

Gly Tyr

<210> 94

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (3)..(3)

<223> Xaa is Aib

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 94

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Pro Lys
1 5 10 15

Gly Tyr

<210> 95

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> Xaa is epsilon aminocaproic acid

<400> 95

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Pro
1 5 10 15

Lys Gly Tyr

<210> 96

<211> 19

<212> PRT

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<400> 96

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Gly Pro
1 5 10 15

Lys Gly Tyr

<210> 97

<211> 19

<212> PRT

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<223> Xaa is epsilon aminocaproic acid

<400> 97

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Pro
1 5 10 15

Lys Gly Tyr

<210> 98

<211> 20

<212> PRT

<213> Artificial

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 98

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 99

<211> 20

<212> PRT

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<400> 99

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 100

<211> 20

<212> PRT

<213> Artificial

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 100

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 101

<211> 17

<212> PRT

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<223> Xaa is epsilon aminocaproic acid

<400> 101

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 102

<211> 17

<212> PRT

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<222> (7)..(7)

<223> M is D form

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 102

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 103

<211> 17

<212> PRT

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 103

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 104

<211> 17

<212> PRT

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<400> 104

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly

1 5 10 15

Tyr

<210> 105

<211> 16

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<223> Xaa is epsilon aminocaproic acid

<400> 105

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 106

<211> 17

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<223> Xaa is epsilon aminocaproic acid

<400> 106

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 107

<211> 17

<212> PRT

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<223> Xaa is epsilon aminocaproic acid

<400> 107

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 108

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 108

Lys Asp Pro Xaa Thr Gly Arg Thr
1 5

<210> 109

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

<223> D is blocked with Fmoc

<400> 109

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 110

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

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<222> (11)..(11)

<223> Xaa is epsilon-aminocaproic acid

<400> 110

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 111

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

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<222> (9)..(9)

<223> Xaa is episilon-aminocaproic acid

<400> 111

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 112

<211> 15

<212> PRT

<213> Artificial

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<222> (11)..(11)

<223> Xaa is episilon-aminocaproic acid

<400> 112

Lys	Asp	Pro	Xaa	Gly	Thr	Gly	Arg	Thr	Gly	Xaa	Pro	Lys	Gly	Tyr
1				5					10					15

<210> 113

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 113

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 114

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 114

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 115

<211> 14

<212> PRT

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<220>

<223> Synthetic peptide substrate

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<220>

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<222> (10)..(10)

<223> Xaa is epsilon-aminocaproic acid

<400> 115

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 116

<211> 13

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> Xaa is 4-aminobutyric acid

<400> 116

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 117

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> Xaa is 8-aminobutyric acid

<400> 117

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 118

<211> 17

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<222> (13)..(13)

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 118

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 119

<211> 17

<212> PRT

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<222> (13)..(13)

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<220>

<221> MOD_RES

<222> (7)..(7)

<223> M is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 119

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 120

<211> 17

<212> PRT

<213> Artificial

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 120

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 121

<211> 17

<212> PRT

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<222> (3)..(3)

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<222> (7)..(7)

<223> M is D form

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<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 121

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 122

<211> 26

<212> PRT

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<223> Xaa is epsilon aminocaproic acid

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<222> (22)..(22)

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<220>

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<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 122

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
20 25

<210> 123

<211> 20

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (16)..(16)

<223> Xaa is episilon-aminocaproic acid

<220>

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<222> (7)..(7)

<223> E is D form

<220>

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<222> (10)..(10)

<223> L is D form

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<222> (14)..(14)

<223> F is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 123

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 124

<211> 20

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (16)..(16)

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<222> (7)..(7)

<223> E is D form

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<221> MOD_RES

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<222> (14)..(14)

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<220>

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<223> Xaa is epsilon aminocaproic acid

<400> 124

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 125

<211> 21

<212> PRT

<213> Artificial

<220>

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 125

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 126

<211> 21

<212> PRT

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 126

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 127

<211> 21

<212> PRT

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 127

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 128

<211> 21

<212> PRT

<213> Artificial

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<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 128

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Asp Glu Phe Gly Xaa
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 129

<211> 21

<212> PRT

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 129

Lys	Asp	Xaa	Xaa	Gly	Ser	Glu	Val	Asn	Leu	Asp	Asp	Glu	Phe	Gly	Xaa
1			5						10					15	

Pro	Lys	Asp	Asp	Tyr
			20	

<210> 130

<211> 23

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> Xaa is Aib

<220>

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<222> (18)..(18)

<223> Xaa is epsilon-aminocaproic acid

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 130

Lys	Asp	Xaa	Xaa	Gly	Gly	Val	Val	Ile	Ala	Thr	Val	Ile	Val	Ile	Thr
1				5					10					15	

Gly	Xaa	Pro	Lys	Asp	Asp	Tyr
			20			

<210> 131

<211> 24

<212> PRT

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<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 131

Lys Asp Xaa Xaa Gly Tyr Gly Val Val Ile Ala Thr Val Ile Val Ile
1 5 10 15

Thr Gly Xaa Pro Lys Asp Asp Tyr
20

<210> 132

<211> 18

<212> PRT

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<223> Synthetic peptide substrate

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 132

Lys Asp Xaa Xaa Gly Val Ile Ala Thr Val Ile Gly Xaa Pro Lys Asp
1 5 10 15

Asp Tyr

<210> 133

<211> 18

<212> PRT

<213> Artificial

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<222> (3)..(3)

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<222> (13)..(13)

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<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 133

Lys	Asp	Xaa	Xaa	Asx	Tyr	Gly	Val	Val	Ile	Ala	Gly	Xaa	Pro	Lys	Asp
1				5					10					15	

Asp Tyr

<210> 134

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> Xaa is Aib

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<222> (12)..(13)

<223> Xaa is epsilon-aminocaproic acid

<220>

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<222> (4)..(5)

<223> Xaa is epsilon aminocaproic acid

<400> 134

Lys	Asp	Xaa	Xaa	Xaa	Gln	Gln	Leu	Leu	His	Asn	Xaa	Xaa	Pro	Lys
1				5					10					15

<210> 135

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (13)..(13)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 135

Lys	Asp	Xaa	Xaa	Gly	Gln	Gln	Leu	Leu	His	Asn	Gly	Xaa	Pro	Lys
1				5					10					15

<210> 136

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3) .. (3)

<223> Xaa is Aib

<400> 136

Lys	Asp	Xaa	Gly	Gln	Gln	Leu	Leu	His	Asn	Gly	Pro	Lys
1				5					10			

<210> 137

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (3) .. (3)

<223> Xaa is Aib

<400> 137

Lys Asp Xaa Gln Gln Leu Leu His Asn Pro Lys
1 5 10

<210> 138

<211> 15

<212> PRT

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<223> Synthetic peptide substrate

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<222> (3)..(3)

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<222> (4)..(5)

<223> Xaa is epsilon aminocaproic acid

<400> 138

Lys Asp Xaa Xaa Xaa Ser Ile Gln Tyr Thr Tyr Xaa Xaa Pro Lys

1	5	10	15
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<210> 139
 <211> 15
 <212> PRT
 <213> Artificial

<220>
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 <222> (3)..(3)
 <223> Xaa is Aib

<220>
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 <222> (13)..(13)
 <223> Xaa is episilon-aminocaproic acid

<220>
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 <222> (4)..(4)
 <223> Xaa is epsilon aminocaproic acid

<400> 139
 Lys Asp Xaa Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Xaa Pro Lys
 1 5 10 15

<210> 140
 <211> 13
 <212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (3)..(3)

<223> Xaa is Aib

<400> 140

Lys	Asp	Xaa	Gly	Ser	Ile	Gln	Tyr	Thr	Tyr	Gly	Pro	Lys
1				5					10			

<210> 141

<211> .11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Xaa is Aib

<400> 141

Lys	Asp	Xaa	Ser	Ile	Gln	Tyr	Thr	Tyr	Pro	Lys
1				5					10	

<210> 142

<211> 15

<212> PRT

<213> Artificial

<220>

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<220>

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<222> (3) .. (3)

<223> Xaa is Aib

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<222> (12) .. (13)

<223> Xaa is epsilon-aminocaproic acid

<220>

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<222> (4) .. (5)

<223> Xaa is epsilon aminocaproic acid

<400> 142

Lys	Asp	Xaa	Xaa	Xaa	Ser	Ser	Gln	Tyr	Ser	Asn	Xaa	Xaa	Pro	Lys
1				5					10					15

<210> 143

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3) .. (3)

<223> Xaa is Aib

<220>

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<222> (13) .. (13)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xaa is epsilon aminocaproic acid

<400> 143

Lys	Asp	Xaa	Xaa	Gly	Ser	Ser	Gln	Tyr	Ser	Asn	Gly	Xaa	Pro	Lys
1				5					10					15

<210> 144

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3) .. (3)

<223> Xaa is Aib

<400> 144

Lys Asp Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Pro Lys
1 5 10

<210> 145

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Xaa is Aib

<400> 145

Lys Asp Xaa Ser Ser Gln Tyr Ser Asn Pro Lys
1 5 10

<210> 146

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<220>

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<222> (12)..(13)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(5)

<223> Xaa is epsilon aminocaproic acid

<400> 146

Lys	Asp	Xaa	Xaa	Xaa	Ser	Ser	Ile	Tyr	Ser	Gln	Xaa	Xaa	Pro	Lys
1				5					10					15

<210> 147

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> Xaa is Aib

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<222> (13)..(13)

<223> Xaa is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 147

Lys	Asp	Xaa	Xaa	Gly	Ser	Ser	Ile	Tyr	Ser	Gln	Gly	Xaa	Pro	Lys
1				5					10					15

<210> 148

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Xaa is Aib

<400> 148

Lys	Asp	Xaa	Gly	Ser	Ser	Ile	Tyr	Ser	Gln	Gly	Pro	Lys
1				5					10			

<210> 149

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (3)..(3)

<223> Xaa is Aib

<400> 149

Lys	Asp	Xaa	Ser	Ser	Ile	Tyr	Ser	Gln	Pro	Lys
1				5					10	

<210> 150

<211> 20

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> Xaa is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 150

Lys	Asp	Pro	Xaa	Gly	Ser	Glu	Val	Asn	Leu	Asp	Ala	Glu	Phe	Gly	Xaa
1				5				10						15	

Pro	Lys	Gly	Tyr
		20	

<210> 151

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 151

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 152

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 152

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
 1 5 10 15

Gly Tyr

<210> 153

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmco

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 153

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
 1 5 10 15

Gly Tyr

<210> 154

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (11)..(11)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 154

Lys	Asp	Pro	Xaa	Gly	Tyr	Val	His	Asp	Gly	Xaa	Pro	Lys	Gly	Tyr
1				5					10				15	

<210> 155

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 155

Lys	Asp	Pro	Xaa	Gly	Tyr	Val	His	Asp	Gly	Ile	Asn	Gly	Xaa	Pro	Lys
1				5					10				15		

Gly Tyr

<210> 156

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 156

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1 5 10

<210> 157

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (12)..(12)

<223> Xaa is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xaa is epsilon aminocaproic acid

<400> 157

Lys	Asp	Pro	Xaa	Gly	Ile	Glu	Pro	Asp	Ser	Gly	Xaa	Pro	Lys	Gly	Tyr
1				5					10					15	

<210> 158

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1) .. (1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (14) .. (14)

<223> Xaa is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xaa is epsilon aminocaproic acid

<400> 158

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 159

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1) .. (1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (15) .. (15)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xaa is epsilon aminocaproic acid

<400> 159

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 160

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fa

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<400> 160

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys

Gly Tyr

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Peptide spacer

<220>

<221> Artificial

<222> (1) .. (17)

<223> Spacer

<400> 161

Asp Gly Ser Gly Gly Gly Glu Asp Glu Lys Lys Glu Asp Gly Gly Asp
1 5 10 15

Lys

<210> 162

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Peptide spacer

<220>

<221> Artificial

<222> (1) . . (8)

<223> Spacer

<400> 162

Asp Gly Ser Gly Gly Asp Glu Lys
1 5

<210> 163

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Peptide spacer

<220>

<221> Artificial

<222> (1)..(9)

<223> Spacer

<400> 163

Lys Glu Asp Glu Gly Ser Gly Asp Lys
1 5

<210> 164

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (5)..(5)

<223> Xaa is norleucine

<400> 164

Asp Ala Ile Pro Xaa Ser Ile Pro Cys
1 5

<210> 165

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (5)..(5)

<223> Xaa is norleucine

<400> 165

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 166

<211> 11

<212> PRT


<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature



<223> Artificial = synthetic protease indicator

<220>

<221> MOD_RES

<222> (9) .. (9)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (1) .. (1)

<223> D is derivatized with fluorophore

<400> 166

Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 167

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1) .. (1)

<223> P is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (10)..(10)

<223> K is derivatized with fluorophore

<400> 167

Pro	Asp	Glu	Val	Asp	Gly	Ile	Asp	Pro	Lys	Gly	Tyr
1				5					10		

<210> 168

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial sequence = synthetic protease indicator

<220>

<221> MOD_RES

<222> (6)..(6)

<223> Xaa is norleucine (Nlu)

<220>

<221> MOD_RES

<222> (10)..(10)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<400> 168

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 169

<211> 12

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial sequence = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (10)..(10)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (6)..(6)

<223> Xaa is norleucine (Nlu)

<400> 169

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 170

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial = synthetic protease indicator

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<222> (1)..(1)

<223> D is blocked wiht Fmoc

<220>

<221> MOD_RES

<222> (5) .. (5)

<223> Xaa is norleucine (Nlu)

<220>

<221> MOD_RES

<222> (9) .. (9)

<223> K is derivatized with fluorophore

<400> 170

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1 5 10

<210> 171

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL = synthetic protease indicator

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<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (1) .. (1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (12) .. (12)

<223> K is derivatized with fluorophore

<400> 171

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 172

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial = synthetic protease indicator

<220>

<221> misc_feature

<222> (1) .. (1)

<223> K is derivatized with fluorophore

<220>

<221> misc_feature

<222> (12)..(12)

<223> K is derivatized with fluorophore

<400> 172

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 173

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluroophore

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (12)..(12)

<223> K is derivatized with fluroophore

<400> 173

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 174

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>

<221> misc_feature

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> misc_feature

<222> (12)..(12)

<223> K is derivatized with fluorophore

<400> 174

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 175

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 175

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 176

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 176

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 177

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (14)..(14)

<223> K is derivatized with fluorophore

<400> 177

Lys	Asp	Asx	Gly	Asp	Glu	Val	Asp	Gly	Ile	Asp	Gly	Pro	Lys	Gly	Tyr
1				5					10					15	

<210> 178

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate
 <220>
 <221> misc_feature
 <223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

 <220>
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 <223> K is blocked with Fmoc

 <220>
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 <222> (1)..(1)
 <223> K is derivatized with fluorophore

 <220>
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 <222> (16)..(16)
 <223> K is derivatized with fluorophore

 <220>
 <221> MOD_RES
 <222> (14)..(14)
 <223> Xaa is epsilon aminocaproic acid

 <220>
 <221> MOD_RES
 <222> (4)..(4)

<223> Xaa is episilon aminocaproic acid

<400> 178

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 179

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with benzyloxycarbonyl group

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon aminocaproic acid

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (16)..(16)

<223> K is derivatized with fluorophore

<400> 179

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 180

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

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<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 180

Lys	Asp	Tyr	Asx	Ala	Asp	Gly	Ile	Asp	Pro	Lys	Gly	Tyr
1				5					10			

<210> 181

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (11)..(11)

<223> K is derivatized with fluorophore

<400> 181

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 182

<211> 12

<212> PRT

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<223> Synthetic peptide substrate

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<223> Artificial = synthetic protease indicator

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<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

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<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (10)..(10)

<223> K is derivatized with fluorophore

<220>

<221> MOD_RES

<222> (6)..(6)

<223> Xaa is norleucine (Nlu)

<400> 182

Lys	Asp	Ala	Ile	Pro	Xaa	Ser	Ile	Pro	Lys	Gly	Tyr
1				5					10		

<210> 183

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial = synthetic protease indicator

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

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<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

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<222> (16)..(16)

<223> K is derivatized with fluorophore

<220>

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<222> (4)..(4)

<223> Xaa is epsilon aminocaproic acid

<220>

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<222> (14)..(14)

<223> Xaa is epsilon aminocaproic acid

<400> 183

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 184

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial = synthetic protease indicator

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<223> K is blocked with Fmoc

<220>

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<222> (1)..(1)

<223> K is derivatized with fluorophore

<220>

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<222> (16)..(16)

<223> K is derivatized with fluorophore

<220>

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<222> (4)..(4)

<223> Xaa is episilonaminocaproic acid

<220>

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<222> (14)..(14)

<223> Xaa is episilonaminocaproic acid

<400> 184

Lys	Asp	Asx	Xaa	Gly	Asp	Glu	Val	Asp	Gly	Ile	Asp	Gly	Xaa	Pro	Lys
1				5					10					15	

Gly Tyr

<210> 185

<211> 14

<212> PRT

<213> Artificial

<220>

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<220>

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<223> K is derivatized with a fluorophore

<220>

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<222> (12)..(12)

<223> K is derivatized with a fluorophore

<400> 185

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 186

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223> Artificial = central protease recognition domain

<400> 186

Gly Asp Glu Val Asp Gly Ile Asp
1 5

<210> 187

<211> 4

<212> PRT

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<220>

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<220>

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<220>
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<223> Xaa is alpha aminobutyric acid (Aib)

<400> 187

Lys Asp Xaa Gly
1

<210> 188
<211> 5
<212> PRT
<213> Artificial

<220>
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<220>
<221> misc_feature
<223> Artificial = pentapeptide core

<220>
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<223> Xaa is alpha aminobutyric acid (Aib)

<220>
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<222> (4)..(4)

<223> Xaa is episilonaminocaproic acid

<400> 188

Lys Asp Xaa Xaa Gly
1 5

<210> 189

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> Artificial = CDR domain

<220>

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<222> (2)..(2)

<223> Xaa is alpha episilonaminocaproic acid

<400> 189

Gly Xaa Pro Lys
1

<210> 190

<211> 14

<212> PRT

<213> Artificial

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<223> K is derivatized with fluorophore

<220>

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<222> (12)..(12)

<223> K is derivatized with fluorophore

<400> 190

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 191

<211> 14

<212> PRT

<213> Artificial

<220>

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<220>

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<223> K is derivatized with fluorophore

<220>

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<222> (12)..(12)

<223> K is derivatized with fluorophore

<400> 191

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1 5 10

<210> 192

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<223> K is derivatized with fluorophore

<220>

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<223> K is derivatized with fluorophore

<220>

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<222> (4)..(4)

<223> Xaa is episilonaminocaproic acid

<220>

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<222> (14)..(14)

<223> Xaa is episilonaminocaproic acid

<400> 192

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 193

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (1)..(7)

<223> Artificial synthethic protease substrate

<400> 193

Asp Glu Val Asp Gly Ile Asn
1 5

<210> 194

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

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<222> (1)..(1)

<223> Xaa is D form of tetrahydroisoquinoline-3-carboxylic acid

<400> 194

Xaa Asp Glu Val Asp Gly Ile Asn
1 5

<210> 195

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 195

Asp Glu Val Asp Gly Ile Asp
1 5

<210> 196

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 196

Leu Val Glu Ile Asp Asn Gly
1 5

<210> 197

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 197

Gly Ile Glu Thr Glu Ser Gly Val
1 5

<210> 198

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate
<220>
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<222> (1)..(4)
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<400> 198
Thr Gly Arg Thr
1

<210> 199
<211> 6
<212> PRT
<213> Artificial

<220>
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<222> (1)..(6)
<223> Artificial protease substrate

<400> 199
Val Met Thr Gly Arg Thr
1 5

<210> 200
<211> 9
<212> PRT
<213> Artificial

<220>

<223> Synthetic peptide substrate
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<222> (1)..(9)
<223> Artificial protease substrate

<400> 200

Ser Glu Val Lys Leu Asp Ala Glu Phe
1 5

<210> 201
<211> 9
<212> PRT
<213> Artificial

<220>
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<220>
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<223> L is D form

<220>
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<223> L is D form

<400> 201

Ser Glu Val Lys Leu Asp Ala Glu Phe
1 5

<210> 202

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial peptide substrate

<400> 202

Glu Asp Val Val Cys Cys Ser
1 5

<210> 203

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial protease substrate

<400> 203

Glu Glu Val Glu Gly Ile Asn
1 5

<210> 204

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (2)..(2)

<223> F is D form

<400> 204

Asp Phe Val Asp Gly Ile Asn
1 5

<210> 205

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(1)

<223> D is D form

<220>

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<222> (4)..(4)

<223> D is D form

<400> 205

Asp Glu Val Asp Gly Ile Asn
1 5

<210> 206

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (1)..(7)

<223> Artificial protease substrate

<400> 206

Leu Val Glu Ile Glu Asn Gly
1 5

<210> 207

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 207

Gly Ile Glu Thr Asp Ser Gly
1 5

<210> 208

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 208

Gly Ile Glu Thr Glu Ser Gly
1 5

<210> 209

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 209

Leu Glu His Asp Gly Ile Asn
1 5

<210> 210

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 210

Leu Glu Thr Asp Gly Ile Asn
1 5

<210> 211

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 211

Trp Glu His Asp Gly Ile Asn
1 5

<210> 212

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(5)

<223> Artificial protease substrate

<400> 212

Tyr Val His Asp Gly
1 5

<210> 213

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(7)

<223> Artificial protease substrate

<400> 213

Tyr Val His Asp Gly Ile Asn
1 5

<210> 214

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(5)

<223> Artificial protease substrate

<400> 214

Tyr Val His Asp Ala
1 5

<210> 215

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1) .. (5)

<223> Artificial protease substrate

<400> 215

Thr Gly Arg Thr Gly
1 5

<210> 216

<211> 9

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<223> E is D form

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<222> (9) .. (9)

<223> F is D form

<220>

<221> MOD_RES

<222> (5)..(5)

<223> L is D form

<400> 216

Ser Glu Val Lys Leu Asp Ala Glu Phe
1 5

<210> 217

<211> 5

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(5)

<223> Artificial protease substrate

<400> 217

Ile Glu Pro Asp Ser
1 5

<210> 218

<211> 7

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(5)

<223> Artificial protease substrate

<400> 218

Pro Leu Gly Ile Ala Gly Ile
1 5

<210> 219

<211> 8

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> Artificial

<222> (1)..(8)

<223> Artificial protease substrate

<400> 219

Ser Gln Asn Tyr Pro Ile Val Gln
1 5

<210> 220

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<400> 220

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 221

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> K is blocked with amide

<400> 221

Lys	Asp	Pro	Xaa	Gly	Asp	Glu	Val	Asp	Gly	Ile	Asn	Gly	Xaa	Pro	Lys
1				5					10					15	

<210> 222

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate
 <220>
 <221> MOD_RES
 <222> (1)..(1)
 <223> K is blocked with Fmoc

 <220>
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 <222> (6)..(6)
 <223> Xaa is D form tetrahydroisoquinoline-3-carboxylic acid

 <220>
 <221> MOD_RES
 <222> (4)..(4)
 <223> Xaa is episilon-aminocaproic acid

 <220>
 <221> MOD_RES
 <222> (15)..(15)
 <223> Xaa is episilon-aminocaproic acid

 <400> 222
 Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
 1 5 10 15
 Lys Gly Tyr

 <210> 223
 <211> 17
 <212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon-aminocaproic acid

<400> 223

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1 5 10 15

Tyr

<210> 224

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (13)..(13)

<223> Xaa is episilon-aminocaproic acid

<400> 224

Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 225

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> K is blocked with amide

<400> 225

Lys	Asp	Pro	Xaa	Gly	Asp	Glu	Val	Asp	Gly	Ile	Asp	Gly	Xaa	Pro	Lys
1				5					10					15	

<210> 226

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (13)..(13)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 226

Lys	Asp	Pro	Xaa	Gly	Leu	Val	Glu	Ile	Asp	Asn	Gly	Xaa	Pro	Lys	Gly
1				5					10					15	

Tyr

<210> 227

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

<400> 227

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 228

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon-aminocaproic acid

<400> 228

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 229

<211> 11

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> D is blocked with Fmoc

<400> 229

Asp	Pro	Thr	Gly	Arg	Thr	Gly	Pro	Lys	Gly	Tyr
1				5					10	

<210> 230

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (11)..(11)

<223> Xaa is episilon-aminocaproic acid

<400> 230

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 231

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (9)..(9)

<223> Xaa is epsilon-aminocaproic acid

<400> 231

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 232

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (11)..(11)

<223> Xaa is episilon-aminocaproic acid

<400> 232

Lys	Asp	Pro	Xaa	Gly	Thr	Gly	Arg	Thr	Gly	Xaa	Pro	Lys	Gly	Tyr
1				5					10				15	

<210> 233

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon-aminocaproic acid

<400> 233

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 234

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<400> 234

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 235

<211> 20

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fmoc

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> Xaa is episilon-aminocaproic acid

<400> 235

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 236

<211> 21

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

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<222> (14)..(14)

<223> F is D form

<220>

<221> MOD_RES

<222> (10)..(10)

<223> L is D form

<220>

<221> MOD_RES

<222> (7)..(7)

<223> E is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon-aminocaproic acid

<400> 236

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Cys
1 5 10 15

Pro Lys Asp Asp Tyr
20

<210> 237

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (1)..(1)

<223> K is blocked with Fa

<220>

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<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<400> 237

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 238

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<400> 238

Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 239

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (7)..(7)

<223> F is D form

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14) .. (14)

<223> Xaa is episilon-aminocaproic acid

<400> 239

Lys Asp Pro Xaa Gly Asp Phe Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 240

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (14) .. (14)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (6)..(6)

<223> D is D form

<220>

<221> MOD_RES

<222> (9)..(9)

<223> D is D form

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<400> 240

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 241

<211> 17

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14) .

<223> Xaa is episilon-aminocaproic acid

<400> 241

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1 5 10 15

Tyr

<210> 242

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

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<222> (12)..(12)

<223> Xaa is episilon-aminocaproic acid

<400> 242

Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 243

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (12)..(12)

<223> Xaa is episilon-aminocaproic acid

<400> 243

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 244

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

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<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<400> 244

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 245

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

<400> 245

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 246

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

<400> 246

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 247

<211> 15

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (11)..(11)

<223> Xaa is episilon-aminocaproic acid

<400> 247

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 248

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is epsilon-aminocaproic acid

<400> 248

Lys	Asp	Pro	Xaa	Gly	Tyr	Val	His	Asp	Gly	Ile	Asn	Gly	Xaa	Pro	Lys
1				5					10					15	

Gly Tyr

<210> 249

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is epsilon-aminocaproic acid

<400> 249

Lys	Asp	Pro	Xaa	Gly	Tyr	Val	His	Asp	Ala	Pro	Lys	Gly	Tyr
1				5					10				

<210> 250

<211> 14

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<400> 250

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1 5 10

<210> 251

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> 4-aminobutyric acid

<400> 251

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 252

<211> 13

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xis 8-aminocaprylic acid

<400> 252

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1 5 10

<210> 253

<211> 20

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xaa is 4-aminobutyric acid

<220>

<221> MOD_RES

<222> (16)..(16)

<223> Xaa is epsilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> F is D form

<220>

<221> MOD_RES

<222> (7)..(7)

<223> E is D form

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<221> MOD_RES

<222> (10)..(10)

<223> L is D form

<400> 253

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1 5 10 15

Pro Lys Gly Tyr
20

<210> 254

<211> 16

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (12) .. (12)

<223> Xaa is episilon-aminocaproic acid

<400> 254

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1 5 10 15

<210> 255

<211> 18

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4) .. (4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (14)..(14)

<223> Xaa is episilon-aminocaproic acid

<400> 255

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1 5 10 15

Gly Tyr

<210> 256

<211> 19

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> MOD_RES

<222> (4)..(4)

<223> Xaa is episilon-aminocaproic acid

<220>

<221> MOD_RES

<222> (15)..(15)

<223> Xaa is episilon-aminocaproic acid

<400> 256

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1 5 10 15

Lys Gly Tyr

<210> 257

<211> 4

<212> PRT

<213> Artificial

<220>

<223> Synthetic peptide substrate

<220>

<221> misc_feature

<223>. Artificial = protease binding domain

<400> 257

Gly Gly Gly Gly

1